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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/017,415	12/18/2001	Kun-Tack Lee	SEC.883	6437
75	90 04/29/2004		EXAM	INER
VOLENTINE FRANCOS, P.L.L.C.			EL ARINI, ZEINAB	
Suite 150 12200 Sunrise V	/alley Drive		ART UNIT	PAPER NUMBER
Reston, VA 20			1746	
			DATE MAILED: 04/29/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

			12-			
	Application No.	Applicant(s)				
	10/017,415	LEE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Zeinab E. EL-Arini	1746				
The MAILING DATE of this communication appeared for Reply	ppears on the cover sheet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu - Any reply received by the Office later than three months after the mail - earned patent term adjustment. See 37 CFR 1.704(b).	. 136(a). In no event, however, may a reply within the statutory minimum of thirty (3 d will apply and will expire SIX (6) MONTH the cause the application to become ABAN	be timely filed 0) days will be considered timely. S from the mailing date of this communication. DONED (35 U.S.C. § 133).				
Status .						
1) Responsive to communication(s) filed on 17						
	is action is non-final.					
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
closed in accordance with the practice under	Ex parte Quayre, 1909 C.D.	1, 400 0.0. 210.				
Disposition of Claims			1			
4)⊠ Claim(s) <u>1-25</u> is/are pending in the application						
4a) Of the above claim(s) <u>19-25</u> is/are withdra	awn from consideration.					
5) Claim(s) is/are allowed. 6) Claim(s) <u>1-3,5-8,10-13 and 15-17</u> is/are reject	-tod					
7) Claim(s) <u>4,9,14 and 18</u> is/are objected to.	Sicu.					
8) Claim(s) are subject to restriction and	or election requirement.					
Application Papers						
9) The specification is objected to by the Examin	ner.					
10) The drawing(s) filed on is/are: a) a		the Examiner.				
Applicant may not request that any objection to the	e drawing(s) be held in abeyance	. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the corre						
11) The oath or declaration is objected to by the	Examiner. Note the attached (THICE ACTION OF TOTAL PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for forei	gn priority under 35 U.S.C. § 1	19(a)-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority docume		diantian No.				
2. Certified copies of the priority docume3. Copies of the certified copies of the priority						
 Copies of the certified copies of the pr application from the International Bure 		ocivou in this realisms. Stage				
* See the attached detailed Office action for a li		ceived.				
Attachment(s)		(DTO 440)				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/	nmary (PTO-413) Aail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0	8) 5) Notice of Info 6) Other:	rmal Patent Application (PTO-152)				

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DETAILED ACTION

1. Election/Restrictions

2. Applicant's election without traverse of Group I, claims 1-18 in Paper No. 031704 is acknowledged.

Priority

Receipt is acknowledged of papers submitted under 35
 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

4. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference characters "14" and "15" have both been used to designate gas spray unit (paragraph [0135], and [0130]. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Réjections - 35 USC § 112

5. The following is a quotation of the second paragraph of 35 U.S.C.112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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6. Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 6 contains the trademark/trade name Teflon. Where a trademark or trade name is used in a claim as a limitation to identify or describe a particular material or product, the claim does not comply with the requirements of 35 U.S.C. 112, second paragraph. See Ex parte Simpson, 218 USPQ 1020 (Bd. App. 1982). The claim scope is uncertain since the trademark or trade name cannot be used properly to identify any particular material or product. A trademark or trade name is used to identify a source of goods, and not the goods themselves. Thus, a trademark or trade name does not identify or describe the goods associated with the trademark or trade name. In the present case, the trademark/trade name is used to identify/describe the material used to make the gas injection tube and the gas guard and, accordingly, the identification/description is indefinite.

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Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

8. Claims 1-2, 5, 7-8, 10-12, 15-17 are rejected under 35 U.S.C. 102(e) as being anticipated by Miyazaki (6,444,047).

Miyazaki discloses a method and apparatus for cleaning a semiconductor substrate. The reference discloses the rotary wafer chuck, de-ionized water supply means, a gas spray unit and gas supply means, and dry gas supply means as claimed. The reference discloses the gas guard (205) as claimed. See Fig. 3, the abstract, col. 2, line 22- col. 4, line 22, col. 5, line 7- col. 6, line 33, col. 6, line 66- col. 10, line 35 and the document in general.

Claim Rejections - 35 USC § 103

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

10. Claims 3, and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miyazaki (6,444,047).

Miyazaki discloses all limitation with the exception of the gas guard comprises a frusto-conical portion as claimed.

It would have been obvious for one skilled in the art to choose the gas guard in the shape of frusto-conical portion to obtain the claimed apparatus. This is because it is a design choice. One skilled in the art would adjust the shape and design of the gas guard to reduce splashing and sputtering of the cleaning fluids.

Conclusion

11. Claims 4, 9, 14, and 18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zeinab E. EL-Arini whose telephone number is (571) 272-1301. The examiner can normally be reached on Monday-Friday.



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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski can be reached on (571) 272-1302. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Zeinal Elarini Zeinab E. EL-Arini Primary Examiner Art Unit 1746

ZEE 042604